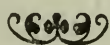


BOWDOIN COLLEGE BULLETIN

CATALOGUE FOR THE

Summer and Fall Trimesters

Number 280



May 1946

BRUNSWICK, MAINE

Bowdoin College Bulletin

The Summer and Fall Trimesters

1946



This Bulletin is published by Bowdoin College at Brunswick, Maine.
Entered as second-class matter at the Post Office at Brunswick, Maine,
under Act of Congress of July 16, 1894.

CONTENTS



I. FOREWORD	5
II. COLLEGE CALENDAR	8
III. OFFICERS OF INSTRUCTION AND GOVERNMENT	10
IV. ADMISSIONS	15
V. CURRICULAR REQUIREMENTS	17
VI. INFORMATION FOR VETERANS	19
VII. COURSES OF INSTRUCTION	21
VIII. SCHEDULE OF COURSES	42
IX. SCHOLARSHIPS AND FINANCIAL AID	45
X. GENERAL INFORMATION	47

Foreword

IN these days of unprecedented demands upon institutions of learning, college catalogues soon become out of date. This special College Bulletin has been prepared to supplement the information contained in the regular edition of the annual Catalogue, and to enable students to select their courses from a wide variety of offerings, many of which have been arranged to meet the demands of the large number of students who are returning from the services to resume their college work. For a more complete account of the resources of the College, and a more detailed statement of curricular requirements, students should consult the regular edition of the annual Catalogue.

Although "education as usual" ended with the attack on Pearl Harbor, the end of hostilities has not permitted a resumption of the normal college calendar and program. Bowdoin's first Summer Session, which opened on June 22, 1942, was designed to enlist every resource of personnel and equipment for the task of training undergraduates for the national service. The College now plans to continue the Summer Session as long as men return from the services in any large numbers, and certainly as long as the services induct eighteen-year-old men.

The first obligation of the College is to the eight hundred men in good standing who left Bowdoin, with varying credits, before completing work for their degrees. Provision has also been made for the one hundred and fifty men who have received their certificates of admission, but were prevented from coming to Bowdoin by induction into the armed services. The College is also mindful of its responsibility to reserve places for a limited number of freshmen entering from preparatory and high schools.

The Summer Session is of particular advantage to returning veterans, many of whom are being released from the services at different times of the year. A veteran, eager to get on with his education, who leaves the service in May, will not have to wait until the end of September before beginning his college work. Furthermore, the Summer Session will aid him in preparing for professional school or in attaining his degree earlier. Although most candidates for admission who graduate from preparatory and high schools in June will probably prefer to begin their college careers in autumn,

many undergraduates—faced with severe competition for admission to graduate schools—may desire to spend their summers in study.

As the Summer Session is an integral part of the College, forming with the Fall and Spring Trimesters a complete academic year, all the resources of the College are at the disposal of the students. Since the student body in the 1946 Summer Session is likely to consist of a large majority of sophomores and upper-classmen, course offerings have been especially planned to meet their demands. For this Session the Bowdoin faculty has been augmented by the addition of a number of teachers from sister colleges and universities.



From the College Charter

"...And be it further enacted . . . that the clear Rents, Issues, and Profits of all the Estate real and personal of which the said Corporation shall be Seized or Possessed, shall be Appropriated to the Endowment of said College in such a Manner as shall most Effectually Promote Virtue and Piety and the Knowledge of such of the Languages and of the Useful and Liberal Arts and Sciences as shall hereafter be Directed from Time to Time by the said Corporation. . . ."

The Offer of the College

To be at home in all lands and all ages; to count Nature a familiar acquaintance, and Art an intimate friend; to gain a standard for the appreciation of other men's work and the criticism of one's own; to carry the keys of the world's library in one's pocket and feel its resources behind one in whatever task he undertakes; to make hosts of friends among the men of one's own age who are to be leaders in all walks of life; to lose oneself in generous enthusiasms and co-operate with others for common ends; to learn manners from students who are gentlemen, and form character under professors who are Christians—this is the offer of the college for the best four years of one's life.

WILLIAM DEWITT HYDE,
President of Bowdoin College (1885-1917)

1946

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1947

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II.

COLLEGE CALENDAR

1946-1947

May 24, Friday.

Review Period.

May 25-June 4, Saturday-Tuesday.

Examinations of the Spring Trimester.

June 1, Saturday.

College Entrance Board Examinations.

June 7, Friday.

Annual meeting of the Phi Beta Kappa, Alpha of Maine.

June 7, Friday.

Presentation of Shakespearean play by the Masque and Gown.

June 8, Saturday.

The 141st Commencement Exercises.

June 22, Saturday.

Rooms ready for occupancy for the Summer Trimester.

June 24, Monday.

Summer Trimester begins.

July 4, Thursday.

A holiday.

August 8-10, Thursday-Saturday.

Examinations of the first term of the Summer Trimester.

August 12, Monday.

Second term of the Summer Trimester begins.

August 12, Monday.

Last day for payment of the balance of college bills for the Summer Trimester.

August 26, Monday.

Last day for filing applications for scholarship aid during the Fall Trimester.

August 28, Wednesday.

College Entrance Board Examinations.

September 25-27, Wednesday-Friday.

Examinations of the second term of the Summer Trimester.

September 28, Saturday.

Special Commencement Exercises.

October 5, Saturday.

Rooms ready for occupancy for the Fall Trimester.

October 7, Monday.

Fall Trimester of the 145th academic year begins, 8.00 A.M.

All students required to be in residence.

Registration.

October 8, Tuesday.

Registration. First Chapel.

October 9, Wednesday.

First Classes.

October 14, Monday.

Meeting of the Phi Beta Kappa, Alpha of Maine.

October 23, Wednesday.

James Bowdoin Day.

November 28, Thursday.

Thanksgiving Day, a holiday.

December 2, Monday.

Last day for the payment of the balance of college bills for the Fall Trimester.

December 9, Monday.

Last day for filing applications for scholarship aid during the Spring Trimester.

December 9, Monday.

Alexander Prize Declamation Contest.

December 14, Saturday.

Interscholastic Debate Tournament.

December 21, Saturday.

Christmas vacation begins, 12 Noon.

1947

January 3, Friday.

Christmas vacation ends, 8.00 A.M.

January 25–February 6, Saturday–Thursday.

Review Period and Examinations of the Fall Trimester.

February 8, Saturday.

Special Commencement Exercises.

III.

Officers of Instruction and Government*

KENNETH CHARLES MORTON SILLS, A.B. (*Bowdoin*), A.M. (*Harvard*), LL.D. (*Maine, Dartmouth, Bates, Colby, Williams, Dalhousie, Yale*), *President of the College, and Winkley Professor of the Latin Language and Literature.* 85 Federal Street

EDWARD SANFORD HAMMOND, A.B., A.M. (*Yale*), Ph.D. (*Princeton*), *Wing Professor of Mathematics, and Director of Admissions.* 9 Thompson Street

NATHANIEL COOPER KENDRICK, A.B. (*Rochester*), A.M., Ph.D. (*Harvard*), *Associate Professor of History, and Acting Dean.* Bowdoin Courts, Apt. P-2, 281 Maine Street

KENNETH JAMES BOYER, A.B. (*Rochester*), B.L.S. (*New York State Library School*), *Librarian.* 16 Longfellow Avenue

WILMOT BROOKINGS MITCHELL, A.B., A.M., L.H.D. (*Bowdoin*), Litt.D. (*Grinnell, Maine*), *Edward Little Professor of Rhetoric and Oratory, Emeritus.* 6 College Street

MANTON COPELAND, B.S., M.S., Ph.D. (*Harvard*), *Professor of Biology, and Josiah Little Professor of Natural Science.* 88 Federal Street

WARREN BENJAMIN CATLIN, A.B. (*Nebraska*), Ph.D. (*Columbia*), *Daniel B. Fayerweather Professor of Economics and Sociology.* 268 Maine Street

ORREN CHALMER HORMELL, A.B. (*Indiana*), A.M. (*Indiana, Harvard*), Ph.D. (*Harvard*), *DeAlva Stanwood Alexander Professor of Government.* 15 Potter Street

ALFRED OTTO GROSS, A.B. (*Illinois*), Ph.D. (*Harvard*), *Professor of Biology.* 11 Boody Street

THOMAS CURTIS VAN CLEVE, A.B., A.M. (*Missouri*), Ph.D. (*Wisconsin*), *Thomas Brackett Reed Professor of History and Political Science.* 76 Federal Street

NOEL CHARLTON LITTLE, A.B. (*Bowdoin*), A.M., Ph.D. (*Harvard*), *Professor of Physics.* 8 College Street

* This list includes only those members of the Faculty who are offering courses in the Summer or Fall Trimesters. The complete roster of the Faculty is printed in the regular edition of the annual Catalogue.

- MORTIMER PHILLIPS MASON, A.B., A.M., Ph.D. (*Harvard*), *Professor of Philosophy.* 156 Maine Street
- THOMAS MEANS, A.B. (*Yale*), A.M. (*Yale, Harvard*), *Joseph E. Merrill Professor of the Greek Language and Literature.* 267 Maine Street
- CHARLES HAROLD LIVINGSTON, A.B., A.M., Ph.D. (*Harvard*), *Longfellow Professor of Romance Languages.* 234 Maine Street
- STANLEY PERKINS CHASE, A.B. (*Bowdoin*), A.M., Ph.D. (*Harvard*), *Henry Leland Chapman Professor of English Literature.* 256A Maine Street
- HERBERT ROSS BROWN, B.S. (*Lafayette*), A.M. (*Harvard*), Ph.D. (*Columbia*), *Professor of English.* 32 College Street
- MALCOLM ELMER MORRELL, B.S. (*Bowdoin*), *Director of Athletics.* Bowdoin Courts, Apt. T-3, 283 Maine Street
- HENRY LINCOLN JOHNSON, M.D. (*Columbia*), *College Physician.* 12 Boody Street
- CECIL THOMAS HOLMES, A.B. (*Bates*), A.M., Ph.D. (*Harvard*), *Professor of Mathematics.* 60 Spring Street
- EDWARD CHASE KIRKLAND, A.B. (*Dartmouth*), A.M., Ph.D. (*Harvard*), *Frank Munsey Professor of History.* 15 Cleaveland Street
- ROBERT PETER TRISTRAM COFFIN, A.B. (*Bowdoin*), A.M. (*Princeton*), B.A., B.Litt. (*Oxford*), Litt.D. (*Maine, Bowdoin*), *Pierce Professor of English.* 44 Harpswell Street
- FREDERIC ERLE THORNLEY TILLOTSON, *Professor of Music.* 181 Maine Street
- NORMAN LESLIE MUNN, B.S. (*Springfield*), A.M., Ph.D. (*Clark*), *Professor of Psychology.*
- JEAN LOUIS DARBELNET, Agrégé de L'Université. *Professor of French.*
- MORGAN BICKNELL CUSHING, A.B. (*Yale*), A.M. (*Pennsylvania*), *Associate Professor of Economics.* 165 Maine Street
- ALBERT ABRAHAMSON, A.B. (*Bowdoin*), A.M. (*Columbia*), *Associate Professor of Economics.* 76 Federal Street
- FRITZ CARL AUGUST KOELLN, Ph.D. (*Hamburg*), *Associate Professor of German.* 7 Page Street
- NEWTON PHELPS STALLKNECHT, A.B., A.M., Ph.D. (*Princeton*), *Associate Professor of Philosophy.* 6 Longfellow Avenue

Officers of Instruction and Government

- ATHERN PARK DAGGETT, A.B. (*Bowdoin*), A.M., Ph.D. (*Harvard*), *Associate Professor of Government*. 6 Longfellow Avenue
- ERNST CHRISTIAN HELMREICH, A.B. (*Illinois*), A.M., Ph.D. (*Harvard*), *Associate Professor of History and Government*. 6 Boody Street
- REINHARD LUNDE KORGAN, A. B. (*Carleton*), A.M., Ph.D. (*Harvard*), *Associate Professor of Mathematics*. Prince's Point Road
- WILLIAM CAMPBELL ROOT, B.S. (*California*), A.M., Ph.D. (*Harvard*), *Associate Professor of Chemistry*. 226 Maine Street
- SAMUEL EDWARD KAMERLING, B.S., M.S. (*New York University*), Ph.D. (*Princeton*), *Associate Professor of Chemistry*. 43 Harpswell Street
- BURTON WAKEMAN TAYLOR, B.S. (*Yale*), Ph.D. (*Columbia*), *Associate Professor of Sociology*. 15 Cleaveland Street
- GEORGE HUNNEWELL QUINBY, A.B. (*Bowdoin*), *Assistant Professor of English, and Director of Dramatics*. 26 McKeen Street
- PHILIP MEADER BROWN, A.B. (*Brown*), A.M. (*Stanford*), Ph.D. (*Harvard*), *Assistant Professor of Economics*. 3 Page Street
- MYRON ALTON JEPPESEN, B.S. (*Idaho*), M.S., Ph.D. (*Pennsylvania State*), *Assistant Professor of Physics and Mathematics*. 8 Harpswell Place
- EATON LEITH, A.B. (*Dartmouth*), A.M. (*Harvard*), *Assistant Professor of Romance Languages*. 24 Longfellow Avenue
- PHILIP CONWAY BEAM, A.B., A.M., Ph.D. (*Harvard*), *Assistant Professor of Art, and Director of the Museum of Fine Arts*. 24 Belmont Street
- ALBERT RUDOLPH THAYER, A.B. (*Bowdoin*), A.M. (*Emerson*), *Assistant Professor of English*. 40 Longfellow Avenue
- ROBERT SHERRICK BRUMBAUGH, A.B., A.M., Ph.D. (*Chicago*), *Assistant Professor of Philosophy*.
- EDWARD CLEMENT HEINTZ, A.B. (*Brown*), A.B.L.S. (*Michigan*), *Assistant Librarian*. 10 Harpswell Place
- THOMAS AURALDO RILEY, A.B. (*Bowdoin*), A.M., (*Yale*), Ph.D. (*Harvard*), *Instructor in German*. 25 Boody Street
- HENRY GIFFEN RUSSELL, A.B. (*Haverford*), A.M., Ph.D. (*Harvard*), *Instructor in Biblical Literature*. 11 Belmont Street
- RICHARD LEIGH CHITTIM, A.B. (*Bowdoin*), *Instructor in Mathematics*. 83 Federal Street

DAN EDWIN CHRISTIE, A.B. (*Bowdoin*), A.M., Ph.D. (*Princeton*), *Instructor in Physics and Mathematics*. 36 Boody Street

WALTER HOUSTON CLARK, A.B. (*Williams*), A.M., Ed.M., Ph.D. (*Harvard*), *Instructor in Psychology*. 15 Franklin Street

ARTHUR MILLS STRATTON, B.S. (*Bowdoin*), A.M. (*Columbia*), *Instructor in English*. 8 College Street

JAMES FREDERIC JOHN GILLEN, A.B. (*Wisconsin, Oxford*), A.M., Ph.D. (*Harvard*), *Instructor in History*. 83 Federal Street

ALLEN LOUIS HANSON, A.B. (*Concordia*), M.S., Ph.D. (*Iowa*), *Instructor in Chemistry*. J-3 Bowdoin Courts, 281 Maine Street

JOHN JOSEPH MAGEE, *Director of Track and Field Athletics*. 23 Boody Street

ROBERT BARTLETT MILLER, *Coach of Swimming*. Topsham

GEORGE DANIEL SHAY, A.B. (*Notre Dame*), *Coach of Football*. R-2 Bowdoin Courts

DANIEL KNOWLES MACFAYDEN, *Coach of Baseball and Hockey*.

FRANK FABEAN SABASTEANSKI, A.B. (*Bowdoin*), *Assistant Coach of Football*.

PHILIP SAWYER WILDER, B.S. (*Bowdoin*), Ed.M. (*Harvard*), *Administrative Officer*. 27 McKeen Street

DONOVAN DEAN LANCASTER, A.B. (*Bowdoin*), *Manager of the Moulton Union, and Director of Student Aid*. 40 Harpswell Street

GLENN RONELLO MCINTIRE, A.B. (*Bowdoin*), *Bursar*. 9 Page Street

SEWARD JOSEPH MARSH, A.B. (*Bowdoin*), *Alumni Secretary*.

SAMUEL APPLETON LADD, JR., B.S. (*Bowdoin*), *Director of the Placement Bureau*. 7 Longfellow Avenue

GEORGE ROGER EDWARDS, A.B. (*Bowdoin*), A.M., Ph.D. (*Johns Hopkins*), *Assistant Curator of the Art Collections*. 23 School Street

CHARLES JEAN MAYAUD, Bac. Math., P.C.B., *Teaching Fellow in French*. 185 Maine Street

FACULTY APPOINTMENTS FOR THE SUMMER TRIMESTER*

* Listed alphabetically without regard to collegiate rank or seniority.

RAYMOND BOURNIQUE, B.S. (*Toledo*), Ph.D. (*Ohio State*), *Instructor in Chemistry.*

JEFFREY JAMES CARRE, A.B. (*Bowdoin*), A.M. (*Columbia*), *Instructor in French and Italian.*

ERNEST ROCKWELL DALTON, B.S. (*Bowdoin*), A.M., M.P.A. (*Harvard*), *Instructor in Social Science, Westbrook Junior College.*

STOWELL COOLIDGE GODING, A.B. (*Dartmouth*), A.M. (*Harvard*), Ph.D. (*Wisconsin*), *Associate Professor of French, Massachusetts State College.*

SAMUEL MAGEE GREEN, A.B., A.M., Ph.D. (*Harvard*), *Assistant Professor of the Fine Arts, Colby College.*

LAWRENCE SARGENT HALL, A.B. (*Bowdoin*), A.M., Ph.D. (*Yale*), *Instructor in English, Yale University.*

GEORGE MORROW KAHRL, A.B. (*Wesleyan*), A.M. (*Princeton*), Ph.D. (*Harvard*), *Professor of English, Elmira College.*

FRED CARLETON MABEE, A.B., A.M. (*McMaster*), A.M., Ph.D. (*Columbia*), *Professor of Chemistry, Bates College.*

ROY EDWARD WIGGIN, A.B. (*Bowdoin*), A.M. (*Harvard*), *Instructor in French, Harvard University.*

EDWIN MINER WRIGHT, A.B. (*Colgate*), A.M., Ph.D. (*Harvard*), *Professor of English, Bates College.*

OTHER OFFICERS

PHILIP DANA, A.M. (*Bowdoin*), *Treasurer of the College.*

Official address: Brunswick, Maine

WILLIAM KELSEY HALL, A.B. (*Bowdoin*), *Assistant Bursar.*

6 Whittier Street

DON THERON POTTER, B.S. (*Bowdoin*), *Superintendent of Grounds and Buildings.*

7 Whittier Street

EDITH ELLEN LYON, *Cataloguer.*

234 Maine Street

MRS. CLARA DOWNS HAYES, *Secretary of the College.*

54 Harpswell Street

IV.

Admissions

ADMISSION TO THE COLLEGE: Application for admission to the Freshman Class should be addressed to the Director of Admissions. Satisfactory testimonials of sound character and personality must be presented by all candidates from the principals or headmasters of their preparatory schools or from other qualified persons. In the event that, for various reasons, it may be impossible or undesirable to accept all those who satisfy the academic requirements for admission as presented below, the College reserves the right to select those candidates who in its judgment will profit most by their admission.

REQUIREMENTS FOR ADMISSION: A college preparatory course should normally be four years in length and should be pursued at a school possessing adequate facilities and an adequate faculty. In preparation for a liberal arts curriculum such as Bowdoin offers, the subjects comprising the course should fall in the following three groups: (1) English and foreign languages, either ancient or modern, (2) mathematics and the natural sciences, and (3) history and the social sciences.

To facilitate the evaluation of a secondary school program, the college admission unit has been devised. This unit represents a course satisfactorily pursued in a secondary school four or five hours a week for a school year. Candidates for admission are required to present fifteen such units including specifically three units in English (which calls for four years' study), three units in one foreign language or two units in each of two different foreign languages, three units in mathematics including elementary and intermediate algebra and plane geometry, and one unit in history. In addition to these ten or eleven prescribed units, candidates should present additional units in these same fields or in the natural sciences to complete the total fifteen.

ADMISSION OF CANDIDATES FROM SECONDARY SCHOOLS: Evidence of satisfactory attainment in these admission units must be offered by each candidate. This evidence is best presented by a transcript of a candidate's school record showing high grades. A candidate whose record falls below his school's standard of certification to college or who has barely achieved that standard should offer in addition examination ratings to support his application. Best adapted for this

purpose are the Scholastic Aptitude and Achievement Tests of the College Entrance Examination Board. These tests will be offered by the Board on Saturday, June 1, 1946; Wednesday, August 28, 1946; and Saturday, December 7, 1946. Candidates wishing to take these examinations should make early application by mail to the Secretary of the College Entrance Examination Board, P. O. Box 592, Princeton, New Jersey. The Director of Admissions will be glad to offer suggestions or advice about these examinations.

ADMISSION OF RETURNING SERVICEMEN: In considering applications from former members of the armed forces, evidence of ability to pursue a college course at Bowdoin is required. In order to act intelligently on such applications, the Director of Admissions desires to assemble all possible evidence, not only records of secondary school courses but also records of service training programs, particularly when these have been academic in character. Excellent work in such programs may offset deficiencies in earlier school work. Where the evidence of ability to do satisfactory work at Bowdoin as shown by educational records is not clear, it is strongly advised that the candidate take the General Educational Development Tests offered by the United States Armed Forces Institute or the Special Aptitude Test for Veterans of the College Entrance Examination Board. This latter test is administered at the same times and places as the regular tests described above and may be given more frequently in a few cities under special arrangements made by the Board. For information veterans should consult the Director of Admissions or the College Entrance Examination Board, P. O. Box 592, Princeton, New Jersey.

Regretfully the College must announce that *there are no vacancies in June or October, 1946*. All places for veterans at these two dates are being filled by former Bowdoin men returning from service to complete their college work or by those admitted to the College before this bulletin was issued. For further information, see pages 19-20.

ADMISSION WITH ADVANCED STANDING: Candidates for admission to the Sophomore, Junior, and Senior classes are admitted only after the receipt of proper evidence of their qualifications to pursue the studies of the classes to which they seek entrance. A student from another college, before he can be admitted, must present a certificate of honorable dismissal. At least one full year of residence is required for a degree. Application for admission to advanced standing should be addressed to the Director of Admissions. See "College Credit for Service Programs," pages 19-21.

Curricular Requirements

A FULL statement of the requirements which must be satisfied by candidates for a degree may be found on pages 47-53 of the regular edition of the annual Catalogue for 1945-1946. All candidates for a Bowdoin degree must pass the following courses, and satisfy the following general requirements:

- A. *English 1-2* and *English 4* (Public Speaking).
- B. *Hygiene* and three years of Physical Education.
- C. A knowledge of French or German:
 - 1. If the language chosen is offered for admission, the requirement may be fulfilled by passing one advanced year-course, such as *French 3-4* or *German 3-4*.
 - 2. If the language chosen was not offered for admission, the requirement may be fulfilled by passing two year-courses in that language.
- D. One year or more, depending upon the individual case, of work in Mathematics or Latin or Greek.
- E. A total of two years of study of the following subjects: History, Government, Economics or Sociology, and Philosophy. This work must be done in at least two of these subjects.
- F. *Either*:
 - 1. For the A.B. degree: two years of study in Literature, and one year of study selected from the following: Physics, Chemistry, Advanced Mathematics, Biology, Astronomy, and Psychology.
 - Or*:
 - 2. For the B.S. degree: two years of study in the sciences listed above, and one year of study in Literature.
- G. Completion of a Major: each student is required to pass six trimester-courses in some major field, and receive a grade of "C" or better in at least four of these courses.
- H. Each student is required to achieve a "C" or better in at least one-half of the thirty-four courses necessary for graduation.

FRESHMEN: Freshmen are required to take *English 1-2* and *English 4*, and should plan to satisfy such requirements as those in Mathematics and French or German in the first two years of their course. In unusual cases, Freshmen may be granted permission to elect certain advanced courses. The following courses are open to Freshmen:

Chemistry 1, 2	Italian 1, 2
Economics 1, 2	Latin A, B
English 1, 2	Latin 1, 2
English 4	Mathematics 1
French 1, 2	Mathematics 11, 12
French 3, 4	Mathematics 14
German 1, 2	Navigation (Astronomy 2)
German 3, 4	Philosophy 1, 2
Government 1, 2	Physics 1, 2
Greek 1, 2	Psychology 1, 2
Greek 3, 4	Spanish 1, 2
History 1, 2	Zoölogy 1, 2
Hygiene	Zoölogy S1, S3

PREMEDICAL STUDENTS: Men taking premedical or other preprofessional courses are advised to follow a normal rather than an accelerated program. However, in those instances, especially of veterans, where circumstances make speed essential, accelerated programs may be arranged. Such students should plan their courses in consultation with the departments in which they are doing their major work.

BOWDOIN-MASSACHUSETTS INSTITUTE OF TECHNOLOGY PLAN: Men who are studying under this plan must conform to quite rigid requirements and should plan their courses with great care in order to preserve the proper sequence.

VI.

Information for Veterans

FOR some time to come, veterans will constitute the majority of the members of the student body, and it is primarily for their benefit that Bowdoin is continuing the accelerated program and maintaining the Summer Session. Men who left Bowdoin to enter the Service—and those who received certificates of admission but were prevented from beginning their college work by their induction—are free to re-enter or to enroll at the beginning of any Trimester, and should notify the College of their intention.

VETERANS' LEGISLATION: Former servicemen who desire to study at the College under the provisions of the G. I. Bill (*Public Law 346*) should establish their eligibility by sending their applications to the *Veterans' Administration Office, Togus, Maine*, or by filing their applications with the College. The latter procedure is preferable for out-of-state residents. Information and necessary application forms can be obtained from the *Veterans' Adviser, 17 Winthrop Hall, Bowdoin College, Brunswick, Maine*.

Men who are studying under *Public Law 16* (Vocational Rehabilitation) must communicate directly with the office of the Veterans' Administration in the district in which they reside.

COLLEGE CREDIT FOR SERVICE PROGRAMS: In awarding credit for work done in service schools and programs, Bowdoin follows, in general, the recommendations contained in *A Guide to the Evaluation of Educational Experiences in the Armed Services*, published by the American Council on Education. The following examples are cited of the college credits that may be awarded for service programs:

Completion of Army or Navy Flight Training	<i>Four courses</i>
Completion of O.C.S. or Midshipmen's School	<i>Two courses</i>
Navy or Marine V-12 Program	<i>Course for course credit</i>
ASTP Area and Language	<i>Maximum of 13 courses for three terms</i>
ASTP Basic Engineering	<i>Maximum of 9 courses for three terms</i>
Pre-Meteorology C Program	<i>Maximum of 14 courses for completion</i>

Correspondence courses at college level in appropriate subjects taken under the auspices of the United States Armed Forces Institute will also be accepted for Bowdoin credit up to a maximum of one Trimester's work if end-of-course examinations have been taken.

To secure credit, men should furnish the College with transcripts, or other supporting evidence, of their records in service programs.

Veterans are allowed to substitute two elective courses for any two of the thirty-four courses required for a degree at Bowdoin; but, in using that waiver, they are urged to keep in mind the general character of the course they are pursuing. In most instances, veterans will have had sufficient military service to satisfy the college requirement in Physical Education.

Married veterans should communicate as early as possible with the *Office of the Bursar, Bowdoin College, Brunswick, Maine*. The College will attempt to assist in finding apartments or rooms, but facilities are limited.

VII.

Courses of Instruction

ARRANGEMENT: The departments of instruction in the following descriptions of courses are listed in alphabetical order. Course offerings include only those to be given in the Summer and Fall Trimesters. The regular edition of the annual Catalogue for 1945-1946 contains a complete list of the courses offered by each department.

TIME AND PLACE OF CLASSES: A time schedule for the courses of the Summer Trimester is printed on pages 42-43 of this Bulletin. A schedule for the Fall Trimester will be issued before the Fall registration period. Lists showing the meeting place for each course will be posted before the opening of each term of the Summer Trimester. In the Summer Trimester, all courses (unless otherwise stated) meet for five periods each week. In the Fall Trimester, all courses (unless otherwise stated) meet for three periods each week.

YEAR COURSES: Courses marked by an asterisk are year courses, and, if elected, must be continued for the two terms of the Summer, or for the Fall and Spring Trimesters.

Art

ASSISTANT PROFESSORS BEAM AND GREEN

1. *General Introduction to Art.* Fall. MR. BEAM.

An elementary study of the nature and aims of art through the interpretation of representation, expression, and design in the Occident and Orient from ancient times to the present day. Architecture, sculpture, and painting are analyzed in their relations to fundamental principles and major historical trends.

4. *European Art and Culture of the Seventeenth and Eighteenth Centuries.* Summer (I). MR. GREEN.

A survey of European architecture, sculpture, and painting during the Baroque and Rococo movements.

7. *Modern Art*. Fall. MR. BEAM.

An examination of the masters, masterpieces, and major movements in modern architecture, sculpture, and painting from the French Revolution to the present day.

9. *Principles of Drawing, Painting, and Design*. Summer (II). MR. BEAM.

An elementary study of the principles of representation, expression, and design, primarily through actual practice in drawing and painting. Two hours daily in classroom and studio, with a minimum of outside work. No previous experience is required.

11. *Interpretation of Works of Art*. Summer (II). MR. BEAM.

An introduction to the processes of interpreting art and the history of art through an intensive chronological study of some of the masterpieces of architecture, sculpture, and painting. One hour daily with collateral assignments.

12. *American Art and Culture*. Summer (I). MR. GREEN.

A survey of American architecture, sculpture, and painting from 1776 to the present day.

Astronomy

PROFESSOR LITTLE

1. *Description Astronomy*. Fall.

A non-mathematical course giving a general survey of our present knowledge of the celestial universe.

2. *Practical Astronomy*. Summer (I).

The use of the sextant in aerial and marine navigation.
Prerequisite: Trigonometry.

Biology

PROFESSORS COPELAND AND GROSS

Zoölogy

S1. *General Introduction to Zoölogy*. Summer (I). MR. COPELAND.

The classification, distribution, morphology, ecology, and evolution of animals. Practice in the use of the microscope and in dissection. Designed not only for any student wishing a course in a scientific field, but also intended to meet the needs of premedical students.

This course is an abbreviated form of the year-course, *Zoölogy 1-2*, the first term of which is listed below. *Zoölogy 1-2* should be preferred to *Zoölogy S1* by those students who are not working under special pressure of time.

- *1. *General Introduction to Zoölogy*. Fall.

The usual, detailed introduction to the field of zoölogy. This course is continued in the Spring Trimester as *Zoölogy 2*.

- S3. *Comparative Anatomy of Vertebrates*. Summer (II). MR. GROSS.

The morphology of vertebrates, and the evolution of animals from the fishes to the mammals. The classification of the chordates, theories of vertebrate structure, and the homologies of organs. *Zoölogy S3* is an abbreviated form of the year-course *Zoölogy 3-4*, the first term of which is listed below.

3. *Comparative Anatomy of Vertebrates*. Fall. MR. GROSS.

The usual, detailed course in comparative anatomy for pre-medical students and those wishing a general course in a scientific field. *Zoölogy 4* continues the work in the Spring Trimester.

Biology

9. *Organic Evolution*. Fall.

An examination of the evidence supporting the doctrine of evolution and the theories of the origin of species. A study of the topics of variation, adaptation, heredity, and other problems which arise in evolutionary biology. Elective for those who have passed twelve trimester courses.

Chemistry

VISITING PROFESSOR MABEE, ASSOCIATE PROFESSORS ROOT AND KAMERLING, AND DRs. HANSON AND BOURNIQUE

- *1. *General Chemistry*. Summer (I) and Fall. MR. MABEE.

2. *Continuation of Course 1*. Summer (II). MR. MABEE.

This course gives a survey of chemical phenomena and chemical substances, discusses the fundamental laws and theories of chemistry, and describes its more important applications in industry and everyday life. The laboratory work of Course 2 consists of work in inorganic qualitative analysis. Lectures, conference, and laboratory work each week.

3. *Chemical Principles, including Quantitative Analysis*. Summer (I) and Fall. MESSRS. ROOT AND MABEE.

4. *Continuation of Course 3*. Summer (II). MESSRS. KAMERLING AND BOURNIQUE.

A survey of those theories of chemistry which are essential to an understanding of chemical reactions and behavior of matter under varying conditions. Among the topics considered are the states of matter, solutions, rate of reaction, equilibrium, atomic structure, valence, oxidation and reduction, voltaic cells. The laboratory work of Course 3 completes the work in inorganic qualitative analysis. Quantitative analysis is begun with gravimetric determinations of chloride and sulfate, and with acidimetry. The laboratory work of Course 4 includes oxidimetry, and the analysis of limestone and brass. Lectures, conference, and laboratory work each week.

Prerequisite: *Chemistry 1-2*.

5. *Physical Chemistry*. Summer (I) and Fall. MR. HANSON.
6. *Continuation of Course 5*. Summer (II). MR. BOURNIQUE.

A general survey of the field of chemistry and its applications to organic chemistry, physics, and biology; including such topics as the states of matter, solutions, thermochemistry, equilibria, electrochemistry, etc. Lectures, conference, and laboratory work each week.

Prerequisites: *Chemistry 3-4, Physics 1-2*.

Mathematics 11, 12 are recommended.

- *7. *Elementary Organic Chemistry*. Summer (I) and Fall. MR. ROOT.
8. *Continuation of Course 7*. Summer (II). MR. KAMERLING.

An introduction to the chemistry of the compounds of carbon. This course forms a foundation for further work in organic chemistry or biochemistry. Lectures, conference, and laboratory work each week.

Prerequisite: *Chemistry 1-2*.

9. *Advanced Physical Chemistry*. Fall. MR. ROOT.

A survey of elementary thermodynamics.

Prerequisite: *Chemistry 5-6*.

11. *Qualitative Organic Analysis*. Fall. MR. KAMERLING.

This course is intended for students desiring further laboratory work in organic chemistry. The first part of the trimester is spent in the study of qualitative organic analysis, the remainder in carrying out preparations of an advanced nature.

Prerequisite: *Chemistry 7-8*.

Comparative Literature

PRESIDENT SILLS

1. *Comparative Literature*. Fall.

A study of the more important literary works of classical and medieval periods, including the Bible, with particular emphasis on their influence upon later literature.

Elective for those who have passed eight trimester courses.

Economics and Sociology

PROFESSOR CATLIN, ASSOCIATE PROFESSORS CUSHING, ABRAHAMSON,
AND TAYLOR, AND ASSISTANT PROFESSOR BROWN

Economics

*1. *Principles of Economics*. Summer (I) and Fall. MESSRS. CATLIN,
CUSHING, ABRAHAMSON AND BROWN.

2. *Continuation of Course 1*. Summer (I and II).

A study of the fundamental laws of the subject, with some of their practical applications in business and politics.

3. *Money and Banking*. Fall. MR. CUSHING.

The general principles of money and banking, and their application to current problems; Federal Reserve credit policy, control of the business cycle and of the price level, the gold standard, managed money, etc.

Prerequisite: *Economics 1-2*.

4. *Corporation Finance*. Summer (I). MR. CUSHING.

An introduction to financial practices and problems of corporate enterprises, with emphasis upon the interpretation and analysis of their financial statements.

Prerequisite: *Economics 1-2*.

6. *Public Finance*. Summer (II). MR. BROWN.

The problems of local, state, and national revenue and expenditure from a social as well as a fiscal standpoint.

Prerequisite: *Economics 1-2*.

7. *Statistics*. Fall. MR. ABRAHAMSON.

A survey of statistical material and techniques, with special reference to economic statistics. Attention is given to methods of collecting, tabulating, charting, and analyzing statistical

data. Problem work in the laboratory occupies at least two hours a week.

Prerequisites: *Economics I-2, Mathematics II.*

9. *Industrial Management*. Fall. MR. CATLIN.

The history and applications of scientific management in manufacturing industries, covering such matters as location, layout, equipment, power, purchasing, stores, operation, and job analysis.

Prerequisite: *Economics I-2.*

11. *Principles of Accounting*. Fall. MR. BROWN.

This course in conjunction with Course 12 aims to acquaint the student with accounting analysis as an important working tool for the business executive and the public administrator.

Prerequisite: *Economics I-2.*

55. *Marketing*. Summer (II). MR. CATLIN.

A study of selling from the viewpoints of the producer and different types of dealers, and of buying from the viewpoint of the consumer. This involves such matters as sales management, packaging and shipping, price policies, advertising, chain stores, consumer movements, government control, etc.

Prerequisite: *Economics I-2.*

Sociology

ASSOCIATE PROFESSOR TAYLOR

1. *Introduction to Sociology*. Summer (I) and Fall.

A general study of the origin, development, and structure of society. The course involves such subjects as the rise and growth of culture, heredity and environment, geographic influences, race, family life, education, religion, play, class divisions, etc.

Elective for those who have passed eight trimester courses.

3. *Population*. Summer (I).

A study of the growth, distribution, and movement of populations in relation to geographic and social factors. Although major emphasis is placed on the population of the United States, conditions in other parts of the world are necessarily considered.

Elective for those who have passed eight trimester courses.

4. *Social Welfare*. Fall.

A study of dependency, delinquency, crime, disease, family disorganization, and other social problems of the modern community.

Prerequisite: *Sociology 1*.

Education

DR. CLARK

1. *History of Education*. Summer (I) and Fall. DR. CLARK.

A consideration of the development of educational ideas and practices throughout history. The personalities and philosophies of the great educational thinkers will be noted and related to the various historical settings. Special attention will be paid to the function of education in a democracy.

2. *History of Education in the United States*. Summer (II).

The beginnings and development of education in this country; American reformers in the field; public and private schools.

3. *Educational Psychology*. Summer (I). DR. CLARK.

A study of those principles of psychology particularly useful to teachers, other workers in education, and those interested in the field for other reasons. Such subjects as testing, learning, educational statistics, personality development, and mental hygiene for student and teacher will be introduced. A previous course in psychology is desirable.

4. *Aims and Organization of Secondary Education*. Summer (II).

Sociological background of secondary education in the United States; curricular and administrative organization; educational tests and measurements.

5. *Public School Administration, Organization, and Management*. Fall.

English

PROFESSORS MITCHELL (*Emeritus*), CHASE, BROWN, COFFIN, KAHRL,
AND WRIGHT, ASSISTANT PROFESSORS QUINBY AND THAYER,
MR. STRATTON, AND DR. HALL

Composition and Public Speaking

- *1. *English Composition*. Summer (I) and Fall. MESSRS. BROWN,
QUINBY, THAYER, STRATTON, AND HALL.

2. *Continuation of Course 1*. Summer (I and II). MESSRS. KAHRL, QUINBY, STRATTON, AND HALL.

A review of the rudiments of written expression, followed by a study of exposition, the novel, drama, and poetry. Recitations, lectures, written exercises; outside reading, essays, and conferences.

4. *Public Speaking*. Summer (II) and Fall. MESSRS. QUINBY AND THAYER.

Informal lectures; drill in articulation, intonation, and gesture; short declamations, with criticism by students and instructor. Two hours each week in the Summer, and one hour each week in the Fall Trimester.

5. *Advanced Public Speaking*. Fall. MR. THAYER.

Persuasive speaking approached through an analysis of examples; practice in parliamentary procedure, committee and panel discussions, and formal argument.

6. *Advanced Public Speaking*. Summer (II). MR. THAYER.

Preparation and presentation of informal and formal speeches for special occasions. Individual instruction and recordings for corrective purposes.

7. *English Composition*. Summer (I). MR. STRATTON.

Written work on assigned subjects; attention focused upon the more elementary aspects of composition, with emphasis upon methods of exposition.

31. *Literary Composition*. Fall. MR. COFFIN.

Practice in writing verse, the familiar essay, the article, the book review, the tale, the novel, and the biographical sketch.

English and American Literature

9. *Survey of English Literature, 700-1640*. Fall. MR. COFFIN.

Lectures and readings covering the field of English literature to 1640, with particular emphasis upon a few representative authors or works; critical essays on outside reading.

11. *The English Novel*. Summer (I). MR. KAHRL.

12. *Continuation of Course 11*. Summer (II). MR. KAHRL.

The development of English fiction, 1700-1900, with special attention to the social and cultural background: Richardson, Fielding, Smollett, Sterne, Austen, Scott, Eliot, Dickens, Thackeray, Meredith, and Hardy.

13. *Shakespeare*: the plays from 1590 to 1601, including *Hamlet*. Fall. MR. CHASE.

The principal plays of Shakespeare's first two periods—two or three studied textually, and nine or ten others read more cursorily.

- 13A. *Shakespeare*. Summer (II). MR. KAHRL.

Study of eight or more of the principal plays (including *Hamlet*) from various periods.

Either 13 or 13A may be followed by 14 in the Spring Trimester, but both 13 and 13A may not be elected by the same student.

16. *English Literature of the Seventeenth Century*. Summer (I). MR. COFFIN.

Poetry and prose from the end of the Elizabethan period through the age of Dryden, with a special study of Donne and Milton.

19. *The Romantic Period*. Fall.

A critical study of the Romantic Movement (1760-1832), with special attention to Wordsworth, Coleridge, Byron, Shelley, and Keats.

21. *Chaucer's Canterbury Tales and Minor Poems*. Fall. MR. CHASE.

Practice in the oral reading of Chaucer's verse; study of fifteen of the *Canterbury Tales*, the *Prologue*, and the connecting links; more rapid reading of the principal minor poems.

23. *The Drama*. Fall. MR. BROWN.

A study of the most important plays of English dramatists, excluding Shakespeare, from medieval times to the eighteenth century.

24. *The Modern Drama*. Summer (II). MR. WRIGHT.

A critical study of leading dramatists, European and American, from Ibsen to Anderson.

25. *American Literature, 1608-1860*. Fall. MR. BROWN.

A broad survey of American literature of this period in the main lines of its development.

- 26A. *American Literature of the Nineteenth Century*. Summer (II). MR. MITCHELL.

Important American writers from Franklin to Whitman.

This course is for students who do not elect *English 25, 26*. Exceptions may be made for veterans who have completed only a part of those courses.

28. *American Literature of the Twentieth Century*. Summer (I). MR. COFFIN.

Lectures and readings covering some forerunners of the modern schools and the most characteristic works of a considerable number of contemporaries.

French

PROFESSORS LIVINGSTON AND DARBELNET, ASSOCIATE PROFESSOR
GODING, ASSISTANT PROFESSOR LEITH, MESSRS.
MAYAUD, CARRE, AND WIGGIN

- *1. *Elementary French*. Summer (I) and Fall. MR. WIGGIN.
2. *Continuation of Course 1*. Summer (II). MR. WIGGIN.
Training in grammar, composition and reading of simple texts.
*3. *Intermediate French*. Summer (I) and Fall. MESSRS. CARRE AND WIGGIN.
4. *Continuation of Course 3*. Summer (II). MESSRS. CARRE AND WIGGIN.

Reading and composition. Oral practice.

5. *Advanced French*. Summer (I) and Fall. MR. GODING.
6. *Continuation of Course 5*. Summer (II).
This course is designed to acquaint the student with some of the leading authors of the last three centuries. Certain works are translated and discussed in the classroom; others are assigned for outside reading. One hour each week is devoted to composition and oral practice.
7. *French Literature from its Origins to the End of the Eighteenth Century*. Fall. MR. LIVINGSTON.

A general survey of the development of French literature down to the Revolution, with a more detailed study of the leading authors and their principal works. Special consideration is given to the development of French classicism and to the literature of the Age of Louis XIV. Lectures, reading, written reports, and explanation of texts.

11. *French Literature of the Nineteenth Century*. Summer (I). MR. GODING.
12. *Continuation of Course 11*. Summer (II). MR. LEITH.
A study of the development of Romanticism and Realism in

the poetry, the novel, and the drama of the nineteenth century, with careful consideration of the leading authors of each school. Lectures, reading, written reports, and explanation of texts.

13. *The Novel in France*. Fall. MR. DARBELNET.
15. *Advanced Composition and Conversation*. Summer (I) and Fall. MESSRS. MAYAUD AND DARBELNET.
16. *Continuation of Course 15*. Summer (II). MR. MAYAUD.
This course is conducted in French. It may be elected only with the consent of the instructor.

German

ASSOCIATE PROFESSOR KOELLN AND DR. RILEY

- *1. *Elementary German*. Summer (I) and Fall. MESSRS. KOELLN AND RILEY.
2. *Continuation of Course 1*. Summer (II). MESSRS. KOELLN AND RILEY.
Training in grammar, composition, and reading of simple texts.
- *3. *Advanced German*. Summer (I) and Fall. MR. KOELLN.
4. *Continuation of Course 3*. Summer (II). MR. KOELLN.
Reading and composition; review of grammar.
Prerequisite: *German 1-2*, or equivalents.
5. *Advanced German*. Fall. MR. RILEY.
Training in reading and composition; practice in speaking German. This course should be taken only along with *German 3-4*. Consult the instructor.
7. *German Drama of the Nineteenth Century*. Summer (I) and Fall. MR. KOELLN.
8. *Continuation of Course 7*. Summer (II). MR. KOELLN.
Classroom reading and interpretation; outside reading and reports.
Prerequisite: *German 3-4*.
9. *German Literature*. Fall. MR. RILEY.
A rapid survey of German literature from the earliest times to the middle of the eighteenth century; a more detailed study of the period from 1748-1900. Lectures, dictation in German,

classroom reading, and interpretation. Outside reading and reports.

Prerequisite: *German 3-4*.

13. *Goethe*. Fall. MR. KOELLN.

Life and works of Goethe; interpretation, especially of *Faust*.

Prerequisites: *German 7-8, 9-10, or 11-12*, and consent of instructor.

15. *Advanced Conversation and Composition*. Summer (I) and Fall. MR. RILEY.

16. *Continuation of Course 15*. Summer (II). MR. RILEY.

Conducted in German; may be elected only with the consent of the instructor.

17. *Scientific German*. Fall.

For juniors and seniors intending to do graduate work in medicine or a natural science. Consult the instructor before enrolment.

Prerequisite: *German 3-4*.

Government

PROFESSOR HORMELL, ASSOCIATE PROFESSORS DAGGETT AND HELMREICH, AND MR. DALTON

1. *American Government*. Summer (I) and Fall. MESSRS. HORMELL, DAGGETT, AND DALTON.

2. *Continuation of Course 1*. Summer (II). MESSRS. DAGGETT AND DALTON.

A survey of national, state and local government; a study of political institutions and governmental problems.

3. *American Constitutional Law*. Summer (I) and Fall. MR. HORMELL.

4. *Continuation of Course 3*. Summer (II). MR. DAGGETT.

A study of the development of constitutional principles in the United States.

Prerequisite: *Government 1-2*.

7. *International Law*. Fall. MR. DAGGETT.

This course deals with the development and statement of the general principles of international public law.

9. *Public Administration*. Fall. MR. HORMELL.
The general principles of public administration in the modern state.
12. *Comparative Government*. Summer (II). MR. HELMREICH.
Attention is centered on the governments of the U. S. S. R., Germany, and Italy.

Greek

PROFESSOR MEANS

- * 1. *Elementary Greek*. Fall.
3. *Xenophon and Plato*. Fall.
Readings in one book of the *Anabasis* and a minor dialogue.
5. *Homer's Iliad*. Fall.
Book V through Book XIV.
11. *Herodotus, Lucian, and Theocritus*. Fall.
19. *Historians*. Summer (I).
Readings from the works of Herodotus, Thucydides, or Xenophon.
20. *Dramatists*. Summer (II).
Readings in Aeschylus, Aristophanes, Euripides, or Sophocles.

History

PROFESSORS VAN CLEVE AND KIRKLAND, ASSOCIATE PROFESSORS
KENDRICK AND HELMREICH, AND DR. GILLEN

1. *History of Europe from the Fall of the Roman Empire to the Reformation*. Fall. MESSRS. VAN CLEVE, AND HELMREICH.
A survey of the chief political, economic, and intellectual developments of European society; the heritage of classical antiquity, the expansion of Church and Empire. (This course will be continued as *History 2* during the spring term of 1947, from the Reformation to World War I, emphasizing the growth of Nationalism and the Modern State, together with the evolution of present day political and social systems.) Lectures, text-book, collateral readings, reports, and weekly conferences.

3. *Europe in the Middle Ages*. Fall. MR. VAN CLEVE.

The history of Medieval Institutions, with special emphasis upon the cultural and intellectual development from the last century of the Roman Empire to the thirteenth century. (This course will be continued as *History 4* during the spring term, emphasizing the cultural and intellectual developments during the fourteenth, fifteenth, and sixteenth centuries.) Lectures, collateral readings, reports, and weekly conferences.

5. *History of Europe from 1500 to 1789*, with special emphasis upon the Renaissance and Reformation. Fall. MR. KENDRICK.

(This course will be continued during the spring term of 1947 as *History 6*, with special emphasis upon the French Revolution and the Napoleonic Period.) Lectures, text-book, collateral readings, conferences.

8. *History of England from 1603 to the Present*. Summer (I). MR. GILLEN.

Continuation of *History 7*, i.e., the history of England to the end of the Tudors. Lectures, text-book, collateral readings, conferences, and reports.

9. *History of Europe from 1815 to 1871*. Fall. MR. HELMREICH.

The political and economic developments which have produced existing conditions in Europe and the expansion of European influence into Asia and Africa. Lectures, text-books, collateral readings, and conferences.

11. *History of the United States from 1783 to 1860*. Fall. MR. KIRKLAND.

12. *History of the United States from 1860 to 1930*. Summer (I). MR. KIRKLAND.

Although these courses (*History 11* and *12*) give attention to economic and social development, chief emphasis is upon political history, and upon the fundamental factors—class interests and sectional alignments—that underlie it. Lectures, text-book, collateral readings, and conferences.

15. *Recent European History*. Fall. MR. HELMREICH.

A survey of the causes of the first World War and of the peace settlement. The chief political and economic problems that have affected the relations of the European powers in the post-war period. Lectures, readings, reports, and conferences.

17. *Economic and Social History of the United States from the Revolution to 1850*. Fall. MR. KIRKLAND.

18. *Economic and Social History of the United States from 1850 to the Present Time.* Summer (I). MR. KIRKLAND.

An historical and topical treatment of such subjects as agriculture, manufacturing, commerce, labor, urban growth, education, immigration, and the arts. These various factors are integrated to explain the civilization of the United States in the past and at the present time. Lectures, text-book, collateral readings, and conferences.

23. *History of Central and Eastern Europe.* Summer (II). MR. HELMREICH.

A study of the historic origins and development, with reference to present day problems, of the peoples of the Baltic states, Russia, Poland, Czechoslovakia, Austria, Hungary and the Balkans. Lectures, collateral readings, reports, and conferences.

25. *History of France from 1815.* Summer (II). MR. GILLEN.

A general history of France from the Congress of Vienna to recent times, emphasizing political, social and economic history as well as international relations. Lectures, text-book, collateral readings, reports, and conferences.

Hygiene and Physical Education

Hygiene

THE COLLEGE PHYSICIAN

Hygiene. Summer and Fall.

Lectures on human anatomy, physiology, and personal hygiene. This course will be given informally in a series of illustrated lectures. Hours to be announced.

Required of freshmen.

Physical Education

MESSRS. MORRELL, MAGEE, MILLER, SHAY, MACFAYDEN, AND
SABASTEANSKI

Physical Education. Summer and Fall.

Under the direction of the College Physician, each student receives a medical and physical examination. Students with defects in posture are assigned to a special corrective class.

All students are required to take part in a supervised sport, or to attend classes in Physical Education.

Italian

ASSISTANT PROFESSOR LEITH AND MR. CARRE

- *1. *Elementary Italian*. Summer (I). MR. CARRE.
- 2. *Continuation of Course 1*. Summer (II). MR. CARRE.
Training in grammar, composition, and reading of simple texts.
- 3. *Italian Prose Writers of the Renaissance*. Fall. MR. LEITH.

Latin

PROFESSOR MEANS

A. *Ovid*. Fall.

Readings in the *Metamorphoses*. Study of and practice in the scansion of hexameter verse.

- 1. *Selections from Latin Prose*. Summer (I) and Fall.
- 2. *Horace, Plautus, and Terence*. Summer (II).
- 3. *Drama*. Summer (I) and Fall.
Readings from the works of Plautus, Terence, or Seneca.
- 14. *Historians*. Summer (II) and Fall.
Readings from the works of Caesar, Livy, Sallust, or Tacitus.

Mathematics

PROFESSORS HAMMOND AND HOLMES, ASSOCIATE PROFESSOR
KORGEN, AND MR. CHITTIM

- 1. *Plane and Spherical Trigonometry*. Summer (I) and Fall. MESSRS. HOLMES AND CHITTIM.
- 11. *Analytic Geometry and Calculus*. Summer (I and II) and Fall. MESSRS. HOLMES, KORGEN, AND CHITTIM.
Mathematics 1 and *11* satisfy the curricular requirement for Freshmen who do not present trigonometry for admission.
- 12. *Continuation of Course 11*. Summer (I and II) and Fall. MESSRS. HOLMES, KORGEN, AND CHITTIM.
Elements of analytic geometry and of differential and integral calculus.
Mathematics 11 and *12*, *11* and *14*, or *11* and *23* satisfy the curricular requirement for Freshmen who present trigonometry for admission.

14. *Elementary Mathematics of Statistics*. Summer (II). MR. KORGEN.
Mathematical and empirical tables; probability; topics from the mathematical theory of statistics, such as measures of dispersion, curve fitting, and statistical correlation.
21. *Analytic Geometry and Calculus*. Summer (I) and Fall. MR. HOLMES.
22. *Continuation of Course 21*. Summer (II). MR. CHITTIM.
Analytic geometry of three dimensions; more complete treatment of calculus than *Mathematics 11* and *12*, including Taylor's series and elementary differential equations.
Prerequisites: *Mathematics 11, 12*.
23. *Algebra*. Fall. MESSRS. HOLMES AND CHITTIM.
Determinants, theory of equations, probability, complex numbers.
Prerequisite: *Mathematics 11*.
31. *Advanced Calculus*. Summer (I) and Fall. MESSRS. HOLMES AND KORGEN.
32. *Continuation of Course 31*. Summer (II). MR. KORGEN.
Partial differentiation and multiple integration; infinite series; differential equations.
Prerequisites: *Mathematics 21, 22*.
41. *Mathematical Analysis*. Fall. MR. HOLMES.
The material of the course is selected from such topics as logical foundations of the calculus, functions of a complex variable, elliptic integrals, and calculus of variations.
Prerequisites: *Mathematics 31, 32* or the consent of the instructor.

Music

PROFESSOR TILLOTSON

1. *Musical Literature*. Fall. MR. TILLOTSON.
A survey of the masterpieces of music and their history from plain-song to Bach. Emphasis is placed upon training in the ability to hear music intelligently, to analyze its principal style and characteristics, and to recognize its content and forms. No previous training in music is required.
- S1. *Romantic Music*. Summer (I).
Style characteristics and formal trends in the music of Berlioz, Chopin, Schumann, Brahms, and Wagner.

- S2. *The Three B's*. Summer (II). MR. TILLOTSON.

Stylistic characteristics and formal content of the important masterpieces of Bach, Brahms, and Beethoven.

- S3. *Debussy and Modern Contemporary Music*. Summer (I).

Impressionism; atonality and polytonality; innovations in form and style; Debussy, Ravel, Stravinsky, Hindemith and modern Americans.

3. *Fundamentals of Musicianship and Elementary Harmony*. Fall. MR. TILLOTSON.

A technical and practical course, leading to further studies in harmony and counterpoint. Emphasis is placed upon the materials of music, rhythm, tonalities, chords, their structure and progression, form, etc. Ear-training forms an integral part of the course.

5. *Harmony*. Fall. MR. TILLOTSON.

A sequel to Courses 3 and 4. A study of the structure and the treatment of chords and their voice movements with respect to the practice of composers of the eighteenth and nineteenth centuries. Four-part writings for voices and instruments from root position triads through inversions, sevenths, and altered chords. Harmonization of given melodies, harmonic analysis, and elementary composition.

Philosophy

PROFESSOR MASON, ASSOCIATE PROFESSORS STALLKNECHT AND KORGEN, AND ASSISTANT PROFESSOR BRUMBAUGH

1. *History of Ancient Philosophy*. Fall. MESSRS. STALLKNECHT AND BRUMBAUGH.

An introduction to philosophy, based on study of the history of ancient philosophy, with special attention to Plato and Aristotle.

2. *History of Modern Philosophy*. Summer (I).

An introduction to modern philosophy; critical examination of the schools of rationalism and empiricism, the philosophy of Kant and the major post-Kantian developments.

- 4A. *Advanced History of Philosophy*. Fall. MR. BRUMBAUGH.

The philosophy of Plato.

Prerequisite: *Philosophy 1* or *2*.

- 4B. *Advanced History of Philosophy*. Summer (II). MR. STALLKNECHT.
The philosophy of Kant.
Prerequisite: *Philosophy 2*.
5. *Recent Movements in Philosophy*. Summer (I). MR. STALLKNECHT.
A study of the outstanding movements in European philosophy of the twentieth century.
Prerequisite: *Philosophy 1* or *2*.
7. *Logic and the Philosophy of Science*. Fall. MR. KORGAN.
An introductory study of logical theory and technique, of scientific method, and of the philosophical background of natural science.
Prerequisite: *Philosophy 1* or *2*.
9. *Aesthetics*. Fall. MR. STALLKNECHT.
A philosophical study of the aesthetic experience, from the historical point of view. The theories of Plato, Aristotle, Kant, Croce, Santayana, and their schools.
Prerequisite: *Philosophy 1* or *2*.
11. *Philosophical Ideas in the United States*. Summer (II). MR. STALLKNECHT.
A study of the outstanding American thinkers. Colonial and European influences will be briefly surveyed. Emphasis will be placed upon thinkers of the last one hundred years, especially Peirce, James, and Dewey.
Prerequisite: *Philosophy 1* or *2*.

Physics

PROFESSOR LITTLE, ASSISTANT PROFESSOR JEPPESEN, AND
DR. CHRISTIE

- * 1. *General Physics*. Summer (I) and Fall. MESSRS. LITTLE AND JEPPESEN.
2. *Continuation of Course 1*. Summer (II). MESSRS. JEPPESEN AND CHRISTIE.
An introduction to the whole field of physics, with laboratory work.
3. *Mechanics*. Summer (I) and Fall. MR. LITTLE.
4. *Continuation of Course 3*. Summer (II). MR. CHRISTIE.
An introduction to Newtonian dynamics using vector anal-

ysis. Applications to problems on atomic structure, kinetic theory, and acoustics.

Prerequisites: *Mathematics 11* and *Physics 1, 2*.

5. *Electricity and Magnetism*. Fall. MR. LITTLE.

An exposition of fundamental principles, supplemented by problems and laboratory measurements.

Prerequisites: *Physics 3, 4*, and *Mathematics 21, 22*.

7. *Light*. Summer (I). MR. JEPPESEN.

8. *Continuation of Course 7*. Summer (II). MR. JEPPESEN.

Geometrical optics, instruments, principles of physical optics, interference, diffraction, polarization.

Prerequisites: *Physics 3, 4*, and *Mathematics 21, 22*.

13. *Electronics*. Fall. MR. JEPPESEN.

Characteristics of vacuum and gas-filled electronic tubes with applications to special devices. Emphasis is placed on the correlation of theory with laboratory technique.

Prerequisite: *Physics 1-2*.

Psychology

PROFESSOR MUNN

*1. *General Psychology*. Summer (I) and Fall. MR. MUNN.

2. *Continuation of Course 1*. Summer (II). MR. MUNN.

An introduction to problems, methods, facts, and principles. Emphasis upon the following topics: psychological development, learning processes, memory, thinking, motivation of behavior, feeling and emotion, perceptual experience, intelligence, aptitudes, and personality.

3. *Abnormal Psychology*. Summer (I) and Fall. MR. MUNN.

The psychology of abnormal people, with special emphasis upon the neuroses, psychoses, and mental hygiene.

4. *Social Psychology*. Summer (II). MR. MUNN.

A study of social influences in the development of personality, and such group phenomena as crowds, propaganda, and public opinion.

5. *Experimental Psychology*.

Laboratory investigations of man's sensory, affective, and motor processes.

6. *Experimental Psychology.*

Laboratory investigations of learning, thinking, and remembering and forgetting.

Religion

DR. RUSSELL

1. *Biblical Literature.* Fall.

An examination of the religion and literature of the Old Testament. This course is designed to acquaint the student with the Bible, and to analyze the development of its religious insight.

3. *History of Religions.* Fall.

An introduction to the history of religions. This course is designed to show the part which religion has played in the total culture of various peoples, and to examine critically the solutions which the world religions have offered to man's quest for spiritual certainty.

Russian

PROFESSOR HAM (*Emeritus*)

3. *Advanced Russian.* Fall.

Readings in prose; grammar and composition.

Spanish

ASSISTANT PROFESSOR LEITH

*1. *Elementary Spanish.* Summer (I) and Fall.

2. *Continuation of Course I.* Summer (II).

Trainings in grammar, composition, and reading of simple texts.

3. *Advanced Spanish.* Fall.

Readings in Spanish prose and poetry; training in composition; a brief survey of Spanish literature.

VIII.

Time Schedule of Courses, Summer, 1946*

FIRST TERM				SECOND TERM			
<i>Course</i>		<i>Hour</i>		<i>Course</i>		<i>Hour</i>	
<i>Art</i>	4	9	A.M.	<i>Art</i>	9	1.30-3.30	P.M.
	12	10	A.M.		11	10	A.M.
<i>Astronomy</i>	2	8	A.M.				
<i>Chemistry</i>	1	9	A.M.	<i>Chemistry</i>	2	9	A.M.
	3	10	A.M.		4	10	A.M.
	5	8	A.M.		6	8	A.M.
	7	11	A.M.		8	11	A.M.
Laboratory hours in all Chemistry courses: Tues. and Thurs., 1.30-4.30 P.M.							
<i>Economics</i>	1	9	A.M.	<i>Economics</i>	2	9	A.M.
	2	8	A.M.		6	8	A.M.
	4	11	A.M.		55	11	A.M.
<i>Education</i>	1	11	A.M.	<i>Education</i>	2	11	A.M.
	3	10	A.M.		4	10	A.M.
<i>English</i>	1	8	A.M.	<i>English</i>	2	8	A.M.
	2	10	A.M.		4	(2 hours per week to be arranged)	
	7	9	A.M.		6	9	A.M.
	11	9	A.M.		12	9	A.M.
	16	11	A.M.		13A	10	A.M.
	28	1.30	P.M.		24	1.30	P.M.
<i>French</i>	1	1.30	P.M.		26A	11	A.M.
	3	11	A.M.	<i>French</i>	2	1.30	P.M.
	5	10	A.M.		4	11	A.M.
	11	11	A.M.		6	10	A.M.
	15	1.30	P.M.		12	11	A.M.
<i>German</i>	1	9	A.M.		16	1.30	P.M.
	3	8	A.M.	<i>German</i>	2	9	A.M.
	7	10	A.M.		4	8	A.M.
	15	11	A.M.		8	10	A.M.
					16	11	A.M.

Time Schedule

43

FIRST TERM				SECOND TERM			
Course		Hour		Course		Hour	
<i>Government</i>	1	9	A.M.	<i>Government</i>	2	9	A.M.
	3	10	A.M.		4	10	A.M.
					12	9	A.M.
<i>Greek</i>	19	8	A.M.	<i>Greek</i>	20	8	A.M.
<i>History</i>	8	1.30	P.M.	<i>History</i>	23	10	A.M.
	12	8	A.M.		25	1.30	P.M.
	18	9	A.M.				
<i>Italian</i>	1	1.30	P.M.	<i>Italian</i>	2	1.30	P.M.
<i>Latin</i>	1	11	A.M.	<i>Latin</i>	2	11	A.M.
	3	1.30	P.M.		14	1.30	P.M.
<i>Mathematics</i>	1	1.30	P.M.	<i>Mathematics</i>	11	1.30	P.M.
	11	11	A.M.		12	11	A.M.
	12	9	A.M.		14	11	A.M.
	21	8	A.M.		22	8	A.M.
	31	10	A.M.		32	10	A.M.
<i>Music</i>	S1	8	A.M.	<i>Music</i>	S2	8	A.M.
	S3	9	A.M.				
<i>Philosophy</i>	2	10	A.M.	<i>Philosophy</i>	4B	1.30	P.M.
	5	1.30	P.M.		11	10	A.M.
<i>Physics</i>	1	10	A.M.	<i>Physics</i>	2	10	A.M.
Laboratory hours: Mon. & Wed., 1.30-4.30 P.M. or Tues. & Thurs., 1.30-4.30 P.M.					4	9	A.M.
	3	9	A.M.		8	8	A.M.
	7	8	A.M.				
Laboratory hours to be arranged.							
<i>Psychology</i>	1	8	A.M.	<i>Psychology</i>	2	8	A.M.
	3	11	A.M.		4	11	A.M.
<i>Sociology</i>	1	11	A.M.				
	3	1.30	P.M.				
<i>Spanish</i>	1	1.30	P.M.	<i>Spanish</i>	2	1.30	P.M.
<i>Zoölogy</i>	S1	9	A.M.	<i>Zoölogy</i>	S3	9	A.M.
Laboratory hours: Tues. and Thurs., 1.30-4.30 P.M.							

* For the scheduling of final examinations, the courses are grouped according to the hours stated above. Hence students may not elect more than one course scheduled to meet at a given hour, even though in certain courses the sections are arranged for other hours.

Scholarships and Financial Aid

MORE than \$50,000 is available annually in scholarships and loan funds to aid meritorious students of slender means. The major awards are of three general kinds: (1) Prematriculation Scholarships for incoming Freshmen, (2) General Scholarships for members of all classes, and (3) Graduate Scholarships for students pursuing their studies in Medical Schools and in Graduate Schools of the Arts and Sciences.

PREMATRICULATION SCHOLARSHIPS: Bowdoin College offers several scholarships to incoming Freshmen. *The State of Maine Scholarships*, four competitive awards of five hundred dollars each, are offered annually to encourage students in the secondary schools of Maine to seek a college education. *The Bowdoin Scholarships*, five awards of four hundred and twenty-five dollars each, are offered to candidates for admission who reside outside the State of Maine. A number of *Alumni Fund Scholarships* with a basic stipend of three hundred dollars are also available. *John Johnston Scholarships:* The John Johnston Fund was established to provide scholarship aid to some able and worthy candidate, preferably from rural Maine, for whom a college education would be quite impossible without very considerable financial assistance. One-half of the stipend for any one of the above scholarships will ordinarily be paid at the beginning of each of the recipient's first two Trimesters. A student may forfeit his scholarship by failing to meet the scholastic requirements. Candidates for admission who expect to remain only for the Summer Trimester should apply for prematriculation scholarships if they are unable to meet the necessary expenses without assistance. Application should be made to Professor Edward S. Hammond, Director of Admissions, Bowdoin College, Brunswick, Maine.

GENERAL SCHOLARSHIPS: Awards are made at the beginning of each Trimester by the Faculty Committee on Student Aid, which is presided over by the President of the College, to men who have completed at least one Trimester's work at Bowdoin. Scholarships are *not* student honors, and should be sought only by students of good rank who cannot, unless so aided, meet the expenses of the college year.

Scholarships, which are awarded upon the basis of financial need and scholastic attainment, vary in amount from seventy-five to five hundred dollars. The average award for two Trimesters is approximately one hundred and seventy-five dollars. The Faculty Committee on Student Aid has formulated the following bases for awards: (1) financial need determined by letters and interviews; (2) the attainment of a rank equal to the minimum requirements for graduation, i.e., the applicant must have received a grade of "C" or better in at least half of his courses during the previous Trimester.

GRADUATE SCHOLARSHIPS AND TERMS OF AWARD: See regular edition of the annual Catalogue for 1945-1946, pages 124-125, and 111-124.

General Information

TERMS AND VACATIONS: The College holds three sessions each year, beginning in June, October, and February. The dates of the Summer and Fall Trimesters, and the vacation periods, are indicated on the College Calendar on pages 8-9 of this Bulletin.

REGISTRATION AND ENROLMENT: All students are required to register on the first day of each Trimester. Students must enroll in courses in accordance with College regulations.

OFFICES AND OFFICE HOURS: The offices of the President, the Dean, the Director of Admissions, the Treasurer, the Bursar, the Alumni Secretary, the Director of the Placement Bureau, and the Superintendent of Grounds and Buildings are in Massachusetts Hall, the oldest Bowdoin building.

The President will usually be in his office from 10:00 to 11:00 o'clock every week-day except Saturday. The offices in Massachusetts Hall are open from 8:30 to 12:00, and from 1:30 to 5:00 every week-day except Saturday (except that the office of the Treasurer and the Bursar closes at 4:30); 8:30 to 12:00 on Saturday.

COLLEGE BILLS AND FEES: At the opening of each Trimester a bill will be presented for tuition, room rent, board, and fees. At least one-half of the amount of this bill must be paid at the time of registration, and the balance shall be payable on or before the date indicated on the College Calendar. Bills for other charges may be presented at any time and shall be payable immediately.

Any student whose bill is not paid when due may be excluded by the Faculty from the privileges of the College and from credit for college work. No student shall be admitted to examinations of a Trimester if any college charges against him remain unpaid, except in special cases by permission of the Faculty.

No student shall be advanced in class standing until all bills of the previous Trimester have been paid, and no degree shall be conferred upon a student who has not paid all his dues to the College, including charges for room and board at a college dining hall. No student shall be dismissed from college on request unless he shall have paid all his college bills, including that of the current session. During the time that bills which are overdue remain unpaid, a student receives no credit for college work.

TUITION: The tuition fee for the Summer Trimester is \$150. Probably the tuition fee will be increased before the beginning of the Fall Trimester. Any student completing the number of courses required for the degree in less than eight Trimesters must pay tuition for at least eight Trimesters.

COLLEGE ROOMS AND BOARD: Applications for rooms should be made to the Assistant Bursar. An applicant may indicate with whom he wishes to share a room, and the College will honor this preference whenever possible. The suites consist of a study and bedroom which are provided with essential furniture. Students should furnish bed linen, blankets, pillows, pillow slips, and towels. College property is not to be removed from the building or from the room in which it belongs; occupants are held responsible for any damage to their rooms. Room rent is \$5 a week, and board is about \$9.50 a week.

OTHER COLLEGE CHARGES: All damage done to the buildings or other property of the College by persons unknown may be assessed equally on all the undergraduates. The College will collect the following fees in the Summer Trimester:

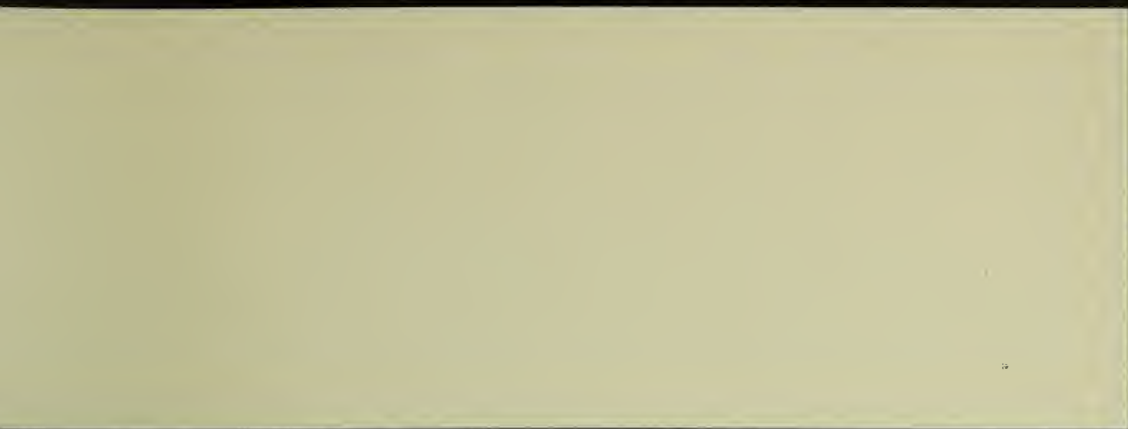
Diploma fee at graduation	\$5.00
Moulton Union fee	\$3.00
Student Activities fee	\$5.00
Fee for the use of a locker and towels in the Gymnasium	\$1.50-\$2.00
Laboratory fees in Chemistry and Zoölogy	\$3.75-\$5.00

The costs of tuition, board, room, and fees amount to about \$400 for the Trimester. To these items must be added the cost of textbooks, personal expenses (including travel), and fraternity expenses for members of these organizations.

REFUNDS: A pro-rata refund of tuition, room rent, and board will be made to students entering the armed services before the end of the Trimester.

Refunds to students leaving for other reasons will be made only in special cases at the discretion of the administrative officers.

MEDICAL ATTENDANCE: The facilities of the endowed Dudley Coe Memorial Infirmary and the services of the College Physician are available to students without charge. If ill, students should immediately call upon or summon the College Physician.



Notice is given that it may be necessary to raise the tuition for the summer trimester to \$200. Final decision will be made at the annual meeting of the Governing Boards, June 6, 1946. The new rate will absorb most of the miscellaneous fees, and provision will be made for additional scholarship aid where the increase in tuition will cause unforeseen hardship.

